



### WAVEGUIDE WR62 DUPLEXER

**RX: 14.793-14.858GHz**

**TX: 15.229-15.348 GHz**

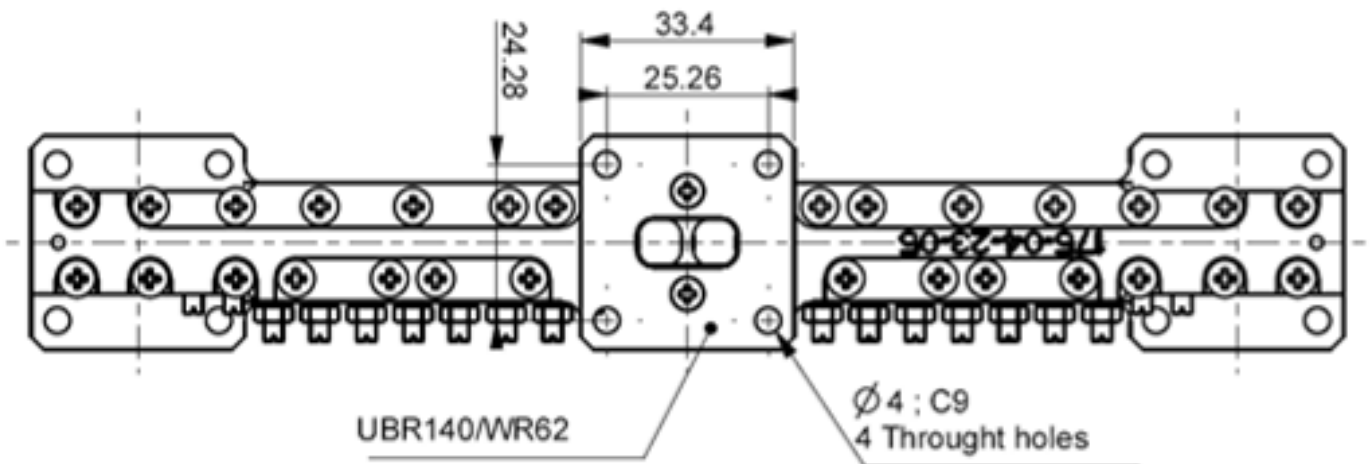
- Compact size and high power handle
- Very high rejection outdoor unit
- Compatible with ITU Standard
- Different frequency and flange available upon request
- Storage temperature -40~+80°C
- Operational Temperature: -30~+70 °C
- Operating Humidity: 0~90% relative
- Material: Aluminum
- Body finish : 2~3µm Ag plated
- Tchebyscheff Response
- Mechanical Test ETS 300-019-1-3 class 3.3

#### Electrical Specification

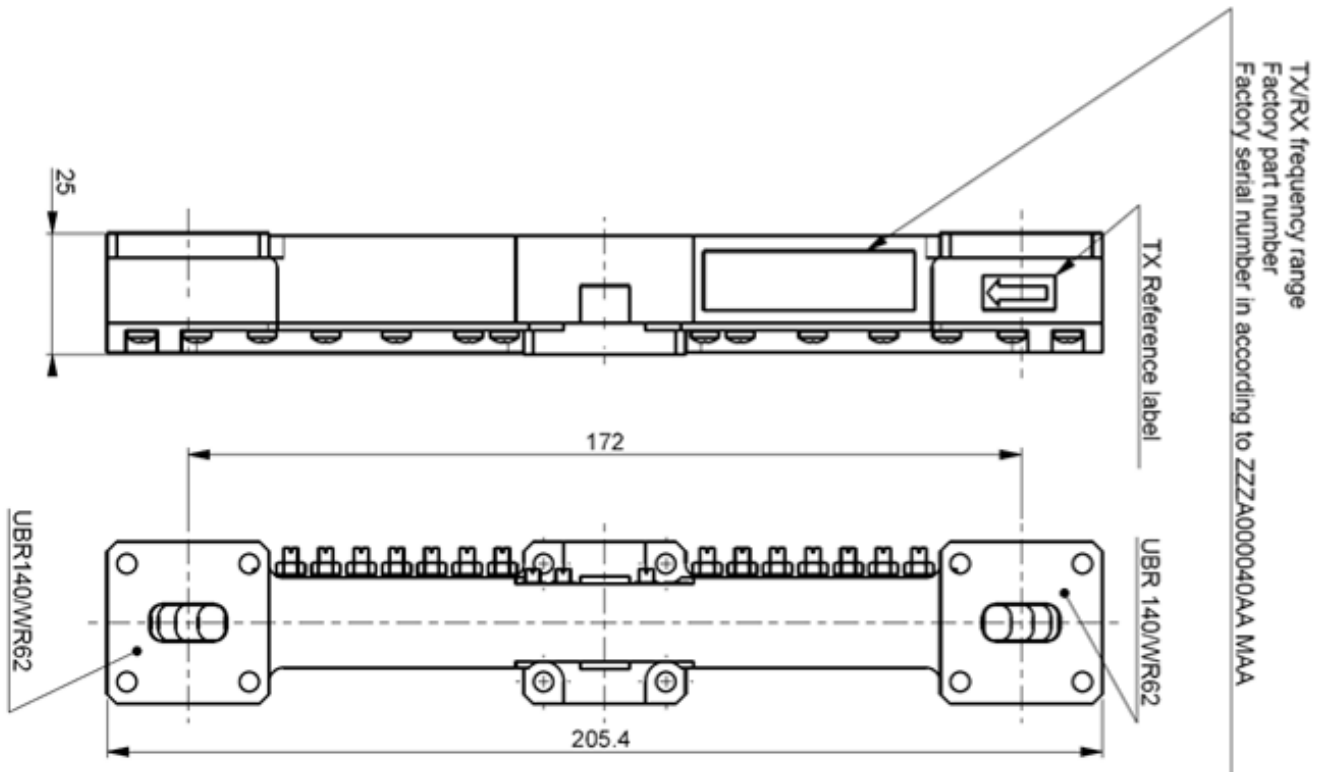
Frequency Range:	RX: 14.793-14.858GHz TX: 15.229-15.348GHz
Insertion Loss:	CH1: 1.5dB max CH2: 1.5dB max
Pass band Ripple:	0.5dB maximum
Power Handle:	200W
Isolation between port:	55dB
Flange:	WR62 CPRF
Impedance:	50 Ω

#### Environmental Specification

Humidity: According to ETS 300-019-1-3 class 3.3  
(par. To 5.1 “climatic conditions”)



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The following TX and RX channel available upon request.

Tx Frequency range		Rx Frequency range		Bandwidth [MHz]		Shifter [MHz]
Fstart [MHz]	Fstop [MHz]	Fstart [MHz]	Fstop [MHz]	Low band	High band	
FL1	FL2	FH1	FH2			
14501	14620	14921	15040	119	119	420
14613	14732	15033	15152	119	119	420
14725	14844	15145	15264	119	119	420
14837	14956	15257	15376	119	119	420
FH1	FH2	FL1	FL2			
14921	15040	14501	14620	119	119	420
15033	15152	14613	14732	119	119	420
15145	15264	14725	14844	119	119	420
15257	15376	14837	14956	119	119	420

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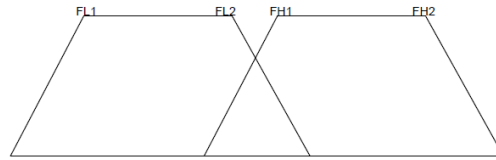


Fig.1 Frequency Diagram Attenuation

### ISOLATION

- Isolation in band (iso in) [Port 1 to the Port under test] > 55 dB typical
- Isolation in band (iso in) [Port 1 to the Port under test] > 50 dB in temperature
- Isolation out band (iso out) [Port 1 to the Port under test] > 40 dB

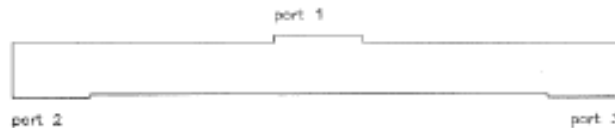


Fig.2 Port Description

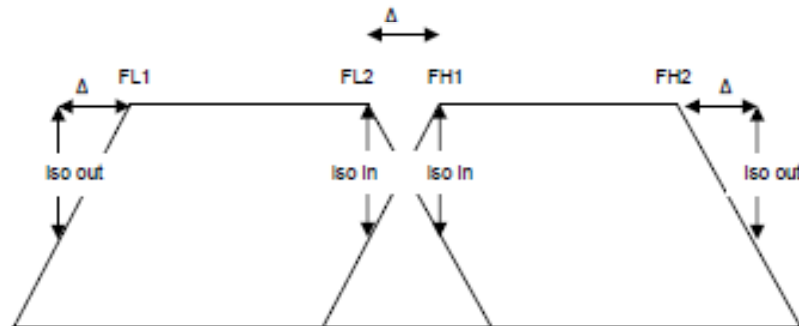
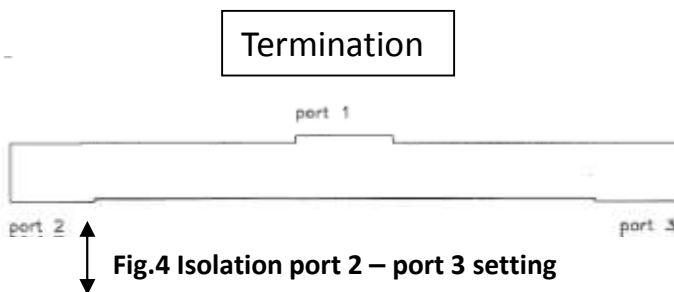


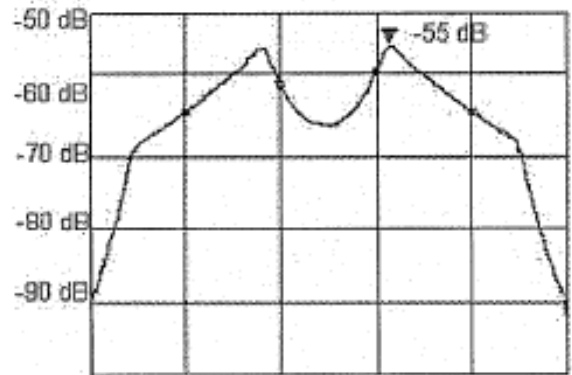
Fig.3 Frequency Diagram Isolation

### Isolation port2 - port3

With the port 1 terminated with a load see fig.4



Isolation Port 2 – Port 3 >55 dB  
See fig. 5 for typical diagram of this measure



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